- a. Performance of the ERTS Data Collection System in a Total System Context ERTS-A Proposal No: SR 210
- b. GSFC ID No. of P.I.: IN 016
- c. Problems: Because this investigation depends upon and lags the individual DCS investigations, any delays in those investigations causes a delay in this one. Therefore, the problem of getting acceptable Data Collection Platforms (DCP's) from the NASA Contractor to DCS P.I.'s is the main delay in this investigation.
- d. Accomplishments: The delay in ERTS-1 launch and in implementing the DCS network has allowed a low-key approach in this investigation. Reporting forms for computerized analysis of DCP failures and incorrect data transmissions have been designed (copies attached) and made available to all NASA DCS P.I.'s at a joint meeting held at NASA-MTF in May 1972 (agenda and attendance list attached). Computer software for analysis of performance is being developed and first debugging efforts were made.

First reports of transmission performance are expected during the next reporting period. Software development will continue and should be essentially completed.

- e. Results: Non-delivery of significant numbers of DCP's to DCS P.I.'s precludes any hard analysis of first results. However, a telephone canvas of P.I.'s shows that 10 DCP's in the U.S. and Canada are on-line and operating satisfactorily. Most problems to date, aside from a timer defect and Test Set defect (both being corrected by NASA Contractor), have been in the nature of "cockpit problems" by project personnel during installations. These were not unexpected and already are beginning to decrease as familiarization proceeds. They system works! (category 9b)
- f. Reports: None
- g. Changes: No changes are recommended at this time. As more DCP's come on-line a fuller assessment can be made.
- h. Standing Order Forms: No changes.
- i. Image Descriptor Forms: N/A
- j. Data Request Forms: None
- k. Status of DCP's: N/A

N72-32346

(E72-10093) PERFORMANCE OF THE ERTS DATA
COLLECTION SYSTEM IN A TOTAL SYSTEM CONTEXT
Progress Report, 1 Jul. - 31 Aug. 1972
Unclas
Progress Report, 1 Jul. - 31 Aug. 1972
One of the ERTS DATA
Unclas
CSCL 05B G3/13 00093
Mo.) 5 Sep. 1972 24 p
CSCL 05B G3/13

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PERFORMANCE OF THE ERTS DATA COLLECTION SYSTEM IN A TOTAL SYSTEM CONTEXT

James F. Daniel U.S. Geological Survey, WRD St. Louis, Missouri 63141

5 September 1972

Type I Progress Report for Period 1 July 1972 - 31 August 1972

Prepared for:

Goddard Space Flight Center Greenbelt, Maryland 20771

Publication authorized by the Director, U.S. Geological Survey

ERTS - DCP

Results Coding Forms Explanation

J. F. Daniel EROS Program

Sheet 1 of 4

HEADER

	Space
C Card number - always 1	1
PID Platform identification number (NASA furnished)	3-6
GRIL Ground radio interference location	8
Code: 1 0- 1 mile 2 1- 5 miles 3 5-20 miles 4 > 20 miles 5 variable (taxis, etc.)	
E Environment	11
Code: 1 center city 2 sub-urban 3 rural 4 remote level 5 remote mountainous	
NS Number of sensors	14-15
PERB Beginning date of report period	18-22
Code: Day Year XXX XX	
May 5, $1972 = 12672$	
PERE Ending date of report period	25-29
Code: See PERB	
TRO Total number of readings obtained (this platform only)	32-36

Sheet 2 of 4

INCORRECT READINGS OBTAINED Card 3	Space
C Card number (begin with 3 See card 2)	1-2
Code: 31,32,3330,3A,3B, etc.	
Same items as Card 2	3-78

Sheet 2 of 4

INCORRECT READINGS OBTAINED Card 2	Space
C Card number (begin with 2 for real time, 3 for mail or vice versa)	1-2
	-
Code: 21,22,2320,2A,2B, etc.	
PID	3-6
SID Sensor identification (investigator furnished)	7 - 8
DAY Code: See PERB, card 1	9-13
AM Total incorrect morning readings for DAY	14-16
PM Total incorrect evening readings for DAY	17-19
A Sensor status - morning	20
Code: 0 - Go 1 - No Go	•
P Sensor status - evening	21
Code: 0 - Go 1 - No Go	
M Mode of data return from Goddard	22 ,
Code: 0 - Mail 1 - Hard wire teletype 2 - Hard wire computer access	
Repeat cycle beginning DAY	23-36 37-50 51-64

Sheet 3 of 4

NO READINGS OBTAINED	
Card 4	Space
C Card number (begin with 4 for real time, 5 for mail or vice-versa)	or 1-2
Code: 41,424B etc.	
PID Code: See PID Card 1	3-6
SID Code: See SID Card 2	7-8
DAY Code: See PERB, Card 1	9-13
D No readings this day in morning	14
Code: 1	
N No readings this day in evening	15
Code: 1	
A Code: See A Card 2	16
P Code: See P Card 2	17
M Code: See M Card 2	18
Repeat cycle beginning DAY	19-28 29-38 39-48 49-58 59-68 69-78

Sheet 3 of 4

NO READINGS OBTAINED Card 5	Space
Begin sequence with 5 for alternate mode from card 4	
Identical format of Card 4	1-78

Sheet 4 of 4

FIELD TEST RESULTS Card 6	Space
C Card number	1-2
Code: 61,626B, etc.	
PID	3-6
FTD Test date	9-13
Code: See PERB - Card 1	
EU/G Entire electronic unit status	16
Code: 0 - Go 1 - No Go	•
EU/R Entire electronic unit replaced	18
Code: 0 - No 1 - Yes	•
XM/G,XM/R Transmitter card	21,23
Codes: See EU/G, EU/R	
PG/G,PG/R Programmer card	26,28
Codes: See EU/G, EU/R	
AM/G,AM/R Analog module	31,33
Codes: See EU/G, EU/R	
DM/G,DM/R Parallel digital module	36,38
Codes: See EU/G, EU/R	
AN/G,AN/R Antenna and leads	41,43
Codes: See EU/G, EU/R	
OT Special note transmitted with cards	
Code: 0 - No 1 - Yes	
One card for each field test conducted	

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United States Department of the Interior



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION MISSISSIPPI TEST FACILITY

BAY ST. LOUIS, MISSISSIPPI 39520

The EROS Program of the U. S. Geological Survey and NASA's Mississippi Test Facility (MTF) cordially invite you to attend an ERTS Data Collection System Users Meeting to be held on May 17 and 18, 1972 at the NASA Mississippi Test Facility in Bay St. Louis, Mississippi.

The purpose of this meeting is to acquaint the ERTS/DCS experimenters with how the system is to be used. Time will be spent on the ground, satellite and antenna systems. Data inputs and outputs will also be discussed. In addition, the meeting will provide an opportunity for the experimenters to get acquainted with each other. It is suggested that if you are unable to attend, that your alternate be capable of exploring the technical aspects of the Data Collection System as most of the discussion will be centered on those aspects of the system. Enclosed are the preliminary agenda and a map of the area.

Experience with past conferences has shown that many people enjoy staying in New Orleans when they come to the MTF area. Consequently, we are allowing each attendee to secure his own accommodations. If you wish to stay closer to MTF, we suggest the Holiday Inn in Slidell, Louisiana (Tel. 504/643-9770) or the Ramada Inn in Waveland, Mississippi (Tel. 601/467-9261). Driving time from both of these motels is about 20 minutes and from New Orleans, 50 minutes. Badges and directions to the meeting room will be available at the South Reception Center located two miles north of the Bay St. Louis/NASA exit off Interstate 10.

We sincerely hope that you will be able to attend this meeting and look forward to having you visit the Mississippi Test Facility. If you have any questions concerning the meeting or problems with travel or accommodations, please contact either the EROS Experiments & Evaluation Office (Tel. 601/688-3541) or NASA's Public Affairs Office (Tel. 601/688-3341). We would appreciate a telephone call confirming your plans for attending the meeting.

Sincerely,

Sapy/W. North, Chief

EXOS Experiments & Evaluation Office

Jackson M. Balch, Director NASA Mississippi Test Facility

Enclosures: 2

CONFERENCE

INTERNATIONAL ERTS DATA COLLECTION SYSTEM USERS

Mississippi Test Facility May 17-18, 1972

GUESTS

(See attached list)

HOSTS

Gary W. North

U. S. Geological Survey

Jackson M. Balch

National Aeronautics and

Space Administration

AM

WEDNESDAY, MAY 17

9:00

Introduction and Welcome

Gary North

U.S.G.S.

Jackson Balch NASA MTF

9:30

Purpose and Scope of Conference

James Daniel

U.S.G.S.

EKTS BILL SCULL,

WASA-GODDPRD

9:45

DCS Status and Schedule

Earle Painter

NASA Goddard Space Flight

Center

10:15

Coffee Break

10:45

NASA Handling of DCS Data

Earle Painter

NASA Goddard

Jerald Klemmer

General Electric Company

11:30

Lunch - Executive Dining Room

Mack Herring

NASA MTF

<u>PM</u>	WEDNESDAY, MAY 17	
1:00	Real Time Data Transmission	Earle Painter NASA Goddard
1:30	User Data Processing	
	USGS Delaware River Project	Richard Paulson U.S.G.S.
· ·	Corps of Engineers New England Project	Saul Cooper USA C of E
2:30	Executive Session	James Daniel U.S.G.S.
3:00	Tour of Facilities	Mack Herring NASA MTF
AM	THURSDAY, MAY 18	
8:30	DCP and Field Test Set Design and Operation	L. Meitin General Electric Company
		G. Berger General Electric Company
9:30	Sensor to DCP Interface	Duane Preble U.S.G.S.
10:30	Coffee Break	
10:45	Demonstration of Equipment	L. Meitin General Electric Company
		G. Berger General Electric Company

AM	THURSDAY, MAY 18		-
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33.45			
11:45	Lunch - Executive Dining Room	Mack Herring NASA MTF	
<u>PM</u>			
1:15	DCP Field Installation and Maintenance	Duane Preble	
		U. S. G. S.	
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2:15	Depot Maintenance and Logistics	Duane Preble U.S.G.S.	
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2:45	DCS Implementation Services	W:11: W 1	
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3:30	Executive Session	James Daniels	
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ATTENDEES DATA COLLECTION SYSTEM USERS MEETING MISSISSIPPI TEST FACILITY

May 17-18, 1972

Addess, Stanley R.
EROS-GSFC Liaison Officer
U. S. Geological Survey - EROS Program
Washington, D. C.
Tel. (301) 982-4484

Akin, Jim Computer Systems Analyst NASA, IN-DAT J. F. Kennedy Spacecraft Center Florida Tel. 867-4197

Anderson, Daniel
Research Hydrologist
U. S. Geological Survey - Water Resources Division
Room 125
2100 M Street, N. W.
Washington, D. C. 20242
Tel. (202) 343-8551

Balch, Jackson M.
Director
NASA Mississippi Test Facility
Bay St. Louis, Miss. 39520
Tel. (601) 688-2121

Bartelloni, H. J. Data Applications Manager General Electric Company Beltsville, Maryland Tel. (301) 345-6000

Beatty, Frank Geographer General Electric Company Mississippi Test Facility Bay St. Louis, Miss. 39520 Tel. (601) 688-3166

Behn, Robert C.
Meteorologist
Battelle Memorial Institute (Representing the State of Ohio)
Columbus, Ohio
Tel. (614) 299-3151, Ext. 2841

Brigham, Lowell H.

Systems Engineer - Aerospace Programs
General Electric Company
5030 Herzel Place
Beltsville, Maryland 20705
Tel. (301) 345-6000

Chapman, Ted Unit Supervisor Water Survey of Canada Calgary Alberta Canada Tel. 243-0366

Clemmer, Gerald S. GDHS Software System Engineer General Electric Company Greenbelt, Maryland Tel. 345-6000

Coker, Gene
Hydrologist
U. S. Geological Survey - Water Resources Division
500 Zack Street
Tampa, Fla. 33602
Tel. (813) 228-7711, Ext. 138

Cooper, Saul Ch. Water Control Corps of Engineers Waltham, Massachusetts Tel. (617) 894-2627

Daniel, James F. Coordinator - Data Relay Systems U. S. Geological Survey - EROS Program

2222 Schuetz Road

St. Louis, Mo. 63141

Tel. (314) 268-7224

Derbonne, Jim Chief, Data Management Group NASA/Earth Resources Laboratory Mississippi Test Facility Bay St. Louis, Miss. 39520 Tel. (601) 688-4255

Fayard, Larry D.
Hydrologist
U. S. Geological Survey - Water Resources Division
Baton Rouge, Louisiana
Tel. (504) 348-4281

Friedman, Jules D.
Geologist
U. S. Geological Survey - GD
Reg. Geophysicist
521 Blair Building
Washington, D. C. 20242
Tel. (301) 495-4577

Goodwin, Carl R.
Hydrologist
U. S. Geological Survey
Tampa, Florida
Tel. (813) 228-7711, Ext. 138

Halliday, R. A.
Head, Special Services and Surveys Section
Water Survey of Canada
Ottawa, Ontario
Canada
KIAOE7
Tel. (613) 994-5251

Heidt, Mike Physicist NASA Manned Spacecraft Center Houston, Texas Tel. 483-3698

Holmes, Robert F. Sensor Program Officer Environmental Protection Agency Washington, D. C. Tel. (202) 254-7471

Howard, Gordon
Remote Sensing Coordinator
Mississippi Liaison Office - State of Mississippi
Building 1100, Room B312
Mississippi Test Facility
Bay St. Louis, Miss. 39520
Tel. (601) 688-4320

Jones, Robert L.
Engineer
NASA/Manned Spacecraft Center
Earth Resources Application Office
Houston, Texas
Tel. (713) 453-4736

Jung, George Electronic Technician U. S. Geological Survey Philadelphia, Pennsylvania Tel. 597-7362 King, Robert H. J. G.D.H.S. Program Manager General Electric Company Beltsville, Maryland Tel. (301) 345-6000

Kollar, Tom
Engineering Technician
U. S. Geological Survey - Water Resources Division
Gulf Coast Hydroscience Center
Mississippi Test Facility
Bay St. Louis, Miss. 39520
Tel. (601) 688-4180

Kruus, Jaan
Head, Instrument Section
Hydrologic Sciences Division
Department of Environment
Ottawa, Ontario
Canada
KIAOE7
Tel. (613) 994-9895

Lowenberg, Stuart
Design Engineer
General Electric Company
Room U2446
P. O. Box 8555
Philadelphia, Pa. 19401
Tel. (215) 962-3150

Lyddon, Tom Sensor Engineer Sperry Rand Corporation Mississippi Test Facility Bay St. Louis, Miss. 39520 Tel. (601) 688-4416

Madole, R. F. Geologist INSTAAR, University of Colorado Boulder, Colo. 80302 Tel. (303) 443-2211, Ext. 6387

McCartney, David
Subdistrict Chief
U. S. Geological Survey
Philadelphia, Pennsylvania
Tel. 597-7366

McGuire, Donald Sensor Specialist National Data Buoy Center Mississippi Test Facility Bay St. Louis, Miss. 39520 Tel. (601) 688-2806 McLemore, B. B.
Electronic Technician
National Marine Fisheries Service
Mississippi Test Facility
Bay St. Louis, Miss. 39520
Tel. (601) 688-4473

Meitin, Louis Test Engineer General Electric Company - A.G.S. Department Daytona Beach, Florida Tel. 285-2497

North, Gary W.
Chief, EROS Experiments & Evaluation Office
U. S. Geological Survey
Mississippi Test Facility
Bay St. Louis, Miss. 39520
Tel. (601) 688-3541

Painter, Earle D.C.S. Manager Goddard Space Flight Center Greenbelt, Maryland Tel. (301) 982-2838

Pastula, Edward Occanographer National Marine Fisheries Service/FEL Mississippi Test Facility Bay St. Louis, Miss. 39520 Tel. (601) 688-4476

Paulson, Richard W. Hydrologist U. S. Geological Survey Harrisburg, Pennsylvania Tel. (717) 782-3420

Penn, Leroy Electronic Engineer NASA/Manned Spacecraft Center Houston, Texas Tel. 483-4422

Pikul, Robert
Associate Department Head
MITRE Corporation
(Westgate Research Park)
McLean, Virginia
Tel. (703) 893-3500, Ext. 2781

Preble, Duane
Electronic Engineer
U. S. Geological Survey
Gulf Coast Hydroscience Center
Mississippi Test Facility
Bay St. Louis, Miss. 39520
Tel. (601) 688-4180

Scull, Wilfred E. ERTS/Nimbus Project Manager NASA/Goddard Space Flight Center Greenbelt, Maryland Tel. (301) 982-2491

Smith, Roger Electronic Engineer NASA Wallops Station Wallops Island, Virginia Tel. (703) 824-3411, Ext. 278

Sundberg, John Electronic Engineer University of Arizona Tucson, Arizona Tel. (602) 884-3107

Svehlak, Henry Geographer General Electric Company Mississippi Test Facility Bay St. Louis, Miss. 39520 Tel. (601) 688-3166

Tuinstra, Raymond
Electronic Engineer
U. S. Army Cold Regions Research and Engineering Laboratory
Hanover, N. H. 03755
Tel. (603) 643-3200, Ext. 302

Ward, Michael T. Engineer NASA Manned Spacecraft Center Houston, Texas Tel. (713) 483-3361

Weber, F. P.
Research Forester
U. S. Forest Service
Berkeley, California
Tel. (415) 841-5121, Ext. 556

White, Tom Engineering Technician U. S. Geological Survey Philadelphia, Pennsylvania Tel. 597-7361

Whitney, C. F. DCS System Engineer Radiation, Inc. Melbourne, Florida Tel. (305) 727-4048

Wires, Hal
Electronic Engineer
U. S. Geological Survey - Water Resources Division
Gulf Coast Hydroscience Center
Mississippi Test Facility
Bay St. Louis, Miss. 39520
Tel. (601) 688-4180

Wojtasinski, R. J.
Instrumentation Systems
NASA, IN-MSD
J. F. Kennedy Spacecraft Center
Florida
Tel. 867-4020

Wood, Bill DCS Program Manager General Electric Company - Space Systems Valley Forge, Pennsylvania Tel. (215) 962-6745